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# मानक

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IS 8960 (1978): Methyl Parathion Dusting Powders [FAD 1: Pesticides and Pesticides Residue Analysis]



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“Knowledge is such a treasure which cannot be stolen”



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IS : 8960 - 1978

*Indian Standard*  
SPECIFICATION FOR  
METHYL PARATHION DUSTING POWDERS  
( First Reprint APRIL 1984 )

UDC 632.951 PAR:632.981.2



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MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG  
NEW DELHI 110002

**Gr 2**

*May 1979*

# *Indian Standard*

## SPECIFICATION FOR METHYL PARATHION DUSTING POWDERS

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AMENDMENT NO. 1 JUNE 1985  
TO

IS:8960-1978 SPECIFICATION FOR METHYL PARATHION  
DUSTING POWDERS

(Page 4, clause 2.1.1) - Substitute the following for the existing clause:

"2.1.1 Methyl parathion technical concentrate employed in the manufacture of this material shall conform to IS: 9372-1980 'Specification for methyl parathion, technical concentrate'."

(Page 4, Table 1) - Substitute 'IS:2570-1980\*' for 'IS:2570-1963\*' and 'IS:6940-1982†' for 'IS:6940-1973†', wherever occur.

(Page 4, Table 1, foot-notes with '\*', '†' and '‡' mark) - Substitute the following for the existing foot-notes:

"\*Specification for methyl parathion, technical (first revision).

†Methods of test for pesticides and their formulations (first revision).

‡See IS:460(Part I)-1978 'Specification for test sieves: Part I Wire cloth test sieves(second revision)'."

(Page 5, clause 2.3) - Substitute the following for the existing clause:

'2.3 Methyl Parathion Content - When determined by the method prescribed in Appendix A of IS:2570-1980\*, the observed methyl parathion content, percent by mass, of any of the samples shall not differ from the declared

nominal value by more than the percent tolerance as indicated below:

<i>Nominal Value, Percent</i>	<i>Tolerance, Percent</i>	
Up to 9	+ 10 - 5	} of the nominal value'
Above 9 and below 50	+ 5	
50 and above	+ 5 - 3	

(Page 5, after clause 2.3.1) - Add new clause after clause 2.3.1:

'2.3.2 - The average content of all the samples taken shall not be less than the declared nominal value.'

(Page 5, clause 3.1) - Substitute the following for the existing clause:

'3.1 Packing - The material shall be packed according to the requirement given in IS:8190(Part I)-1980<sup>†</sup>'.

(Page 5, foot-notes with '\*', '†', '‡', '§' and '||' marks) - Substitute the following for the existing foot-notes:

'\*Specification for methyl parathion technical (first revision). --

'†Requirements for packing of pesticides: Part I Solid pesticides (first revision).'

(Page 6, clause 3.2.1) - Delete.



(Page 6, clause 4.1) - Substitute the following for the existing clause:

'4.1 Representative samples of the material shall be drawn as prescribed in IS:10627-1983\*.'

(Page 6, clause 5.1.1, line 3) - Substitute 'IS: 2570-1980<sup>†</sup>' for 'IS: 2570-1963<sup>†</sup>'.

(Page 6, foot-notes with '\*' and '†' marks) - Substitute the following for the existing foot-notes:

\*Methods for sampling of pesticidal formulations.

†Specification for methyl parathion technical (first revision).'

(AFCDC 6)

**AMENDMENT NO. 2 MAY 1994  
TO  
IS 8960 : 1978 SPECIFICATION FOR METHYL  
PARATHION DUSTING POWDERS**

( *Page 6, clause 4.1* ) — Substitute the following for the existing:

'When freshly manufactured material in bulk quantity is offered for inspection, representative samples of the material shall be drawn and tested as prescribed in IS 10627 : 1983 within 90 days of its manufacture. When the material is offered for inspection after 90 days of its manufacture, sampling shall be done as prescribed in IS 10627 : 1983. However, the criteria for conformity of the material when tested, shall be the limits of tolerances, as applicable over the declared nominal value and given under clause 2.3 of the standard.'

4 A)

( FAD 1 )

Reprography Unit, BIS, New Delhi, India

*Indian Standard*  
**SPECIFICATION FOR  
METHYL PARATHION DUSTING POWDERS**

**0. FOREWORD**

**0.1** This Indian Standard was adopted by the Indian Standards Institution on 29 December 1978, after the draft finalized by the Pest Control Sectional Committee had been approved by the Agricultural and Food Products Division Council and the Chemical Division Council.

**0.2** Methyl parathion dusting powder formulations are used in the control of insect pests of agricultural crops.

**0.3** Methyl parathion dusting powder formulations are generally manufactured to contain 2 percent ( *m/m* ) of methyl parathion.

**0.4** In the preparation of this standard due consideration has been given to the provisions of the Insecticides Act, 1968 and the Rules framed thereunder. However, this standard is subject to the restrictions imposed under these, wherever applicable.

**0.5** For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test or analysis, shall be rounded off in accordance with IS : 2-1960\*. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

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**1. SCOPE**

**1.1** This standard prescribes the requirements and the methods of sampling and test for methyl parathion dusting powders.

**2. REQUIREMENTS**

**2.1 Description** — The material shall be in the form of a homogeneous powder. It shall be free-flowing and devoid of lumps. Methyl parathion, technical used in its manufacture shall have been uniformly mixed in suitable fillers, such as talc or pyrophyllite. The material, when dusted from a hand rotary duster, shall issue freely without clogging or bridging.

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\*Rules for rounding off numerical values ( *revised* ).

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**2.1.1** Methyl parathion, technical employed in the manufacture of dusting powder formulations shall conform to IS : 2570-1963\*.

**2.2** The material shall also comply with the requirements given in Table 1.

**TABLE 1 REQUIREMENTS FOR METHYL PARATHION  
DUSTING POWDERS**

( Clauses 2.2 and 5.1 )

Sl. No.	CHARACTERISTIC	REQUIREMENT	METHOD OF TEST, REF TO.	
			Appendix of IS : 2570- 1963*	Cl No. of IS : 6940- 1973†
(1)	(2)	(3)	(4)	(5)
i)	Methyl parathion content, percent by mass	Nominal value as declared on the container ( see 2.3.1 )	A	—
ii)	Material passing through 75-micron IS Sieve‡, percent by mass, <i>Min</i>	90	—	12.1
iii)	Bulk density after compacting	Not to exceed the value obtained before compacting by more than 60 percent	—	12.2
iv)	Acidity ( as $H_2SO_4$ ), percent by mass, <i>Max</i>	0.2	—	11.3
OR				
	Alkalinity ( as NaOH ), percent by mass, <i>Max</i>	0.1	—	11.3

\*Specification for methyl parathion technical.

†Methods of tests for pesticides and their formulations.

‡See IS : 460-1962 Specification for test sieves ( revised ).

BS Sieve 200, ASTM Sieve 200, Tyler Sieve 200 have apertures within the limits specified for the above IS Sieve and may therefore, be used as 75-micron IS Sieve.

\*Specification for methyl parathion, technical.

**2.3 Methyl Parathion Content** — When determined by the method prescribed in Appendix A of IS : 2570-1963\*, the observed methyl parathion content, percent by mass of any of the samples shall not differ from the declared nominal value by more than percent tolerance as indicated below:

<i>Nominal Value, Percent</i>	<i>Tolerance, Percent</i>
Up to 9	+ 10 - 5
10 and below 50	± 5
50 and above	+ 5 - 3

} of the nominal value

**2.3.1** The actual value of the methyl parathion content in the formulation shall be calculated to the third decimal place and then rounded off to second decimal place before applying the tolerances as stipulated in 2.3.

### 3. PACKING AND MARKING

**3.1 Packing** — The material shall be packed in clean and dry containers made of mild steel, or tin plate or fibre board or double hessian jute bags ( see IS : 8115-1976† ) or D.W. Tarpaulin laminated jute bags ( see IS : 8117-1976‡ ) or HDPE woven sacks ( see IS : 8069-1976§ ). The containers shall also comply with general requirements as stipulated in 2 of IS : 8190 ( Part I )-1976||.

**3.2 Marking** — The containers shall bear legibly and indelibly the following information and any other additional information as is necessary under the Insecticides Act and Rules:

- a) Name of the material;
- b) Name of the manufacturer;
- c) Batch number;
- d) Date of manufacture;
- e) Date of expiry;
- f) Net mass of contents;
- g) Nominal methyl parathion content, percent ( *m/m* ); and
- h) The minimum cautionary notice as worded in the Insecticides Act and Rules.

\*Specification for methyl parathion, technical.

†Specification for double hessian jute bags for pesticides.

‡Specification for DW tarpaulin laminated jute bags for pesticides.

§Specification for high density polyethylene woven sacks for packing pesticides.

||Requirements for packing of pesticides: Part I Solid pesticides.

## IS : 8960 - 1978

**3.2.1** When bags are used for packing this material, the pictorial marking for 'USE NO HOOKS, DO NOT PUNCTURE' as contained in IS : 1260 ( Part II )-1973\* shall be stencilled on the bags.

**3.2.2** Each container may also be marked with the ISI Certification Mark.

**NOTE** — The use of the ISI Certification Mark is governed by the provisions of the Indian Standards Institution ( Certification Marks ) Act and the Rules and Regulations made thereunder. The ISI Mark on products covered by an Indian Standard conveys the assurance that they have been produced to comply with the requirements of that standard under a well-defined system of inspection, testing and quality control which is devised and supervised by ISI and operated by the producer. ISI marked products are also continuously checked by ISI for conformity to that standard as a further safeguard. Details of conditions under which a licence for the use of the ISI Certification Mark may be granted to manufacturers or processors, may be obtained from the Indian Standards Institution.

## 4. SAMPLING

**4.1** Representative samples of the material shall be drawn as prescribed in 'Indian Standard methods for sampling of pesticides and their formulations' ( *under preparation* ).

**NOTE** — Till such time the standard under preparation is published, the matter shall be as agreed to between the concerned parties.

## 5. TESTS

**5.1** Tests shall be carried out by the methods as specified in col 4 and 5 of Table 1.

**5.1.1** For determination of methyl parathion content, extract a known amount of the sample with diethyl ether which is distilled off. Then proceed as in Appendix A of IS : 2570-1963†.

**5.2 Quality of Reagents** — Unless specified otherwise, pure chemicals and distilled water ( *see* IS : 1070-1977‡ ) shall be employed in tests.

**NOTE** — 'Pure chemicals' shall mean chemicals that do not contain impurities which affect the results of analysis.

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\*Pictorial markings for handling and labelling of goods: Part II General goods ( *first revision* ).

†Specification for methyl parathion, technical.

‡Specification for water for general laboratory use ( *second revision* ).

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## INTERNATIONAL SYSTEM OF UNITS ( SI UNITS )

### Base Units

Quantity	Unit	Symbol
Length	metre	m
Mass	kilogram	kg
Time	second	s
Electric current	ampere	A
Thermodynamic temperature	kelvin	K
Luminous intensity	candela	cd
Amount of substance	mole	mol

### Supplementary Units

Quantity	Unit	Symbol
Plane angle	radian	rad
Solid angle	steradian	sr

### Derived Units

Quantity	Unit	Symbol	Conversion
Force	newton	N	1 N = 1 kg m/s <sup>2</sup>
Energy	joule	J	1 J = 1 N.m
Power	watt	W	1 W = 1 J/s
Flux	weber	Wb	1 Wb = 1 V.s
Flux density	tesla	T	1 T = 1 Wb/m <sup>2</sup>
Frequency	hertz	Hz	1 Hz = 1 c/s ( s <sup>-1</sup> )
Electric conductance	siemens	S	1 S = 1 A/V
Pressure, stress	pascal	Pa	1 Pa = 1 N/m <sup>2</sup>

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